



TORO Analysis of Industrial Machinery Mechanics to Maintenance and Repair Workers, General

INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Industrial Machinery Mechanics	49-9041.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Maintenance and Repair Workers, General	49-9042.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

91

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	87	Level	94	Level	92

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Inductive Reasoning	51	9	62	Active Listening	53	1	70	Building and Construction	65	13	70
Problem Sensitivity	51	7	75								
Information Ordering	60	7	68								
Oral Expression	51	7	53								
Multilimb Coordination	53	2	65								
Visualization	53	2	59								
Deductive Reasoning	48	2	56								

LEVEL and IMPT (IMPORTANCE) refer to the Target Maintenance and Repair Workers, General. GAP refers to level difference between Industrial Machinery Mechanics and Maintenance and Repair Workers, General.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Industrial Machinery Mechanics	Maintenance and Repair Workers, General	Importance
Problem Sensitivity	44	51	75
Information Ordering	53	60	68
Manual Dexterity	53	48	68
Multilimb Coordination	51	53	65



Near Vision	50	50	65
Inductive Reasoning	42	51	62
Arm-Hand Steadiness	48	44	62
Visualization	51	53	59
Deductive Reasoning	46	48	56
Selective Attention	50	44	56
Finger Dexterity	51	44	56
Static Strength	50	48	56
Oral Comprehension	50	50	53
Oral Expression	44	51	53
Control Precision	55	48	53
Speech Clarity	39	34	53

Skill Level Comparison - Abilities with importance scores over 69

Description	Industrial Machinery Mechanics	Maintenance and Repair Workers, General	Importance
Equipment Maintenance	73	69	76
Repairing	74	61	76
Troubleshooting	70	63	72
Active Listening	52	53	70
Equipment Selection	67	62	70
Installation	73	62	70

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Industrial Machinery Mechanics	Maintenance and Repair Workers, General	Importance
Mechanical	81	78	87
Building and Construction	52	65	70

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Industrial Machinery Mechanics	Maintenance and Repair Workers, General	Description	Industrial Machinery Mechanics	Maintenance and Repair Workers, General
10+ years	7%	0%	Doctoral	0%	0%
8-10 years	8%	5%	Professional Degree	0%	0%
6-8 years	8%	7%	Post-Masters Cert	0%	0%
4-6 years	14%	19%	Master's Degree	0%	0%
2-4 years	17%	18%	Post-Bachelor Cert	0%	0%
1-2 years	15%	24%	Bachelors	7%	0%
6-12 months	3%	4%	AA or Equiv	1%	8%
3-6 months	13%	0%	Some College	11%	21%
			Post-Secondary		



1-3 months	0%	0%	Certificate	30%	31%
0-1 month	0%	10%	High School Diploma or GED	24%	25%
None	11%	8%	No HSD or GED	17%	11%

Industrial Machinery Mechanics

Maintenance and Repair Workers, General

Most Common Educational/Training Requirement:

Long-term on-the-job training

Moderate-term on-the-job training

Job Zone Comparison

3 - Job Zone Three: Medium Preparation Needed

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Previous work-related skill, knowledge, or experience is required for these occupations. For example, an electrician must have completed three or four years of apprenticeship or several years of vocational training, and often must have passed a licensing exam, in order to perform the job.

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Tasks

Industrial Machinery Mechanics

Maintenance and Repair Workers, General

Core Tasks

Core Tasks

Generalized Work Activities:

Generalized Work Activities:

- Repairing and Maintaining Mechanical Equipment - Servicing, repairing, adjusting, and testing machines, devices, moving parts, and equipment that operate primarily on the basis of mechanical (not electronic) principles.
- Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects.
- Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
- Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources.
- Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials.

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Specific Tasks

Specific Tasks

Occupation Specific Tasks:

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- Analyze test results, machine error messages, and information obtained from operators in order to diagnose equipment problems.
- Clean, lubricate, and adjust parts, equipment, and machinery.

- Adjust functional parts of devices and control instruments, using hand tools, levels, plumb bobs, and straightedges.
- Align and balance new equipment after installation.
- Assemble, install and/or repair wiring,



- Cut and weld metal to repair broken metal parts, fabricate new parts, and assemble new equipment.
- Demonstrate equipment functions and features to machine operators.
- Disassemble machinery and equipment to remove parts and make repairs.
- Enter codes and instructions to program computer-controlled machinery.
- Examine parts for defects such as breakage and excessive wear.
- Observe and test the operation of machinery and equipment in order to diagnose malfunctions, using voltmeters and other testing devices.
- Operate newly repaired machinery and equipment to verify the adequacy of repairs.
- Reassemble equipment after completion of inspections, testing, or repairs.
- Record parts and materials used, and order or requisition new parts and materials as necessary.
- Record repairs and maintenance performed.
- Repair and maintain the operating condition of industrial production and processing machinery and equipment.
- Repair and replace broken or malfunctioning components of machinery and equipment.
- Study blueprints and manufacturers' manuals to determine correct installation and operation of machinery.

Detailed Tasks

Detailed Work Activities:

- adhere to safety procedures
- adjust or set mechanical controls or components
- adjust production equipment/machinery setup
- align or adjust clearances of mechanical components or parts
- analyze operation of malfunctioning electrical or electronic equipment
- apply cleaning solvents
- assemble and install pipe sections, fittings, or plumbing fixtures
- assemble, dismantle, or reassemble equipment or machinery
- bend tubing or conduit
- braze metal parts or components together
- calibrate or adjust electronic equipment or instruments to specification
- conduct performance testing
- conduct tests to locate mechanical system malfunction
- control HVAC equipment
- coordinate production maintenance

electrical and electronic components, pipe systems and plumbing, machinery, and equipment.

- Clean and lubricate shafts, bearings, gears, and other parts of machinery.
- Diagnose mechanical problems and determine how to correct them, checking blueprints, repair manuals, and parts catalogs as necessary.
- Dismantle devices to gain access to and remove defective parts, using hoists, cranes, hand tools, and power tools.
- Estimate repair costs.
- Fabricate and repair counters, benches, partitions, and other wooden structures such as sheds and outbuildings.
- Grind and reseat valves, using valve-grinding machines.
- Inspect drives, motors, and belts, check fluid levels, replace filters, and perform other maintenance actions, following checklists.
- Inspect used parts to determine changes in dimensional requirements, using rules, calipers, micrometers, and other measuring instruments.
- Inspect, operate, and test machinery and equipment in order to diagnose machine malfunctions.
- Lay brick to repair and maintain buildings, walls, arches and other structures.
- Maintain and repair specialized equipment and machinery found in cafeterias, laundries, hospitals, stores, offices, and factories.
- Operate cutting torches or welding equipment to cut or join metal parts.
- Order parts, supplies, and equipment from catalogs and suppliers, or obtain them from storerooms.
- Paint and repair roofs, windows, doors, floors, woodwork, plaster, drywall, and other parts of building structures.
- Perform routine preventive maintenance to ensure that machines continue to run smoothly, building systems operate efficiently, and the physical condition of buildings does not deteriorate.
- Plan and lay out repair work using diagrams, drawings, blueprints, maintenance manuals, and schematic diagrams.
- Record maintenance and repair work performed and the costs of the work.
- Repair or replace defective equipment parts using hand tools and power tools, and reassemble equipment.
- Set up and operate machine tools to repair or fabricate machine parts, jigs and fixtures, and tools.
- Use tools ranging from common hand and power tools, such as hammers, hoists, saws, drills, and wrenches, to precision measuring instruments and electrical and



activities

- cut, bend, or thread pipe for gas, air, hydraulic, or water lines
- determine installation, service, or repair needed
- develop maintenance schedules
- diagnose mechanical problems in machinery or equipment
- fabricate, assemble, or disassemble manufactured products by hand
- identify base metals for welding
- identify properties of metals for repair or fabrication activities
- inspect machinery or equipment to determine adjustments or repairs needed
- install electrical conduit or tubing
- install electrical fixtures or components
- install electronic equipment, components, or systems
- install electronic power, communication, control, or security equipment or systems
- install equipment or attachments on machinery or related structures
- install industrial machinery or related heavy equipment
- install or replace meters, regulators, or related measuring or control devices
- install water or sewer treatment plant equipment
- install/connect electrical equipment to power circuit
- lubricate machinery, equipment, or parts
- maintain or repair industrial or related equipment/machinery
- maintain or repair small engines
- maintain or repair work tools or equipment
- maintain repair records
- maintain specialized manufacturing or commercial equipment or machinery
- maintain welding machines or equipment
- move or fit heavy objects
- observe or listen to machinery or equipment operation to detect malfunctions
- obtain information from individuals
- operate crane in construction, manufacturing or repair setting
- operate hoist, winch, or hydraulic boom
- operate pneumatic test equipment
- order or purchase supplies, materials, or equipment
- overhaul industrial or construction machinery or equipment
- overhaul power-generating equipment or machinery
- perform detailed welding techniques
- perform hydraulic plumbing

electronic testing devices.

Detailed Tasks

Detailed Work Activities:

- adhere to safety procedures
- adjust or set mechanical controls or components
- align or adjust clearances of mechanical components or parts
- apply cleaning solvents
- assemble and install pipe sections, fittings, or plumbing fixtures
- assemble, dismantle, or reassemble equipment or machinery
- bend tubing or conduit
- build or repair structures in construction, repair, or manufacturing setting
- burn (cut), trim, or scarf metal objects
- climb ladders, scaffolding, or utility or telephone poles
- conduct tests to locate mechanical system malfunction
- construct, erect, or repair wooden frameworks or structures
- control HVAC equipment
- coordinate production maintenance activities
- cut, bend, or thread pipe for gas, air, hydraulic, or water lines
- cut, shape, fit, or join wood or other construction materials
- determine installation, service, or repair needed
- diagnose mechanical problems in machinery or equipment
- erect scaffold
- estimate time or cost for installation, repair, or construction projects
- fabricate sheet metal parts or items
- fabricate, assemble, or disassemble manufactured products by hand
- follow safe waste disposal procedures
- identify properties of metals for repair or fabrication activities
- inspect machinery or equipment to determine adjustments or repairs needed
- install doors, wood floors, window frames, trim, or stairs
- install electrical fixtures or components
- install electronic equipment, components, or systems
- install equipment or attachments on machinery or related structures
- install industrial machinery or related heavy equipment
- install insulating materials
- install locks, hinges, or related finish hardware



- perform safety inspections in industrial, manufacturing or repair setting
- position, align, or level machines, equipment, or structures
- program computer numerical controlled machines
- read blueprints
- read schematics
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- repair computer controlled manufacturing systems
- repair or adjust measuring or control devices
- repair or replace electrical wiring, circuits, fixtures, or equipment
- repair or replace malfunctioning or worn mechanical components
- repair plastics manufacturing equipment
- repair sheet metal products
- replace electronic components
- requisition stock, materials, supplies or equipment
- set up and operate variety of machine tools
- set up computer numerical control machines
- solder electrical or electronic connections or components
- solder metal parts or components together
- test electrical/electronic wiring, equipment, systems or fixtures
- test electronic or electrical circuit connections
- test mechanical products or equipment
- understand service or repair manuals
- understand technical operating, service or repair manuals
- use 2-cycle engine technology
- use acetylene welding/cutting torch
- use arc welding equipment
- use basic plumbing techniques
- use braze-welding equipment
- use combination welding procedures
- use control or regulating devices to adjust or maintain industrial machinery
- use electrical or electronic test devices or equipment
- use electronic calibration devices
- use hand or power tools
- use high voltage apparatus
- use knowledge of metric system
- use knowledge of welding filler rod types
- use machine tools in installation, maintenance, or repair

Handwritten

- install or replace glass in windows, skylights, or other structural surfaces
- install or replace meters, regulators, or related measuring or control devices
- install shingles, tile, slate, asphalt, or related roofing materials
- install/connect electrical equipment to power circuit
- install/string electrical or electronic cable or wiring
- lay or install brick, block, stone, tile, or related masonry material
- lubricate machinery, equipment, or parts
- maintain or repair industrial or related equipment/machinery
- maintain or repair work tools or equipment
- maintain repair records
- maintain specialized manufacturing or commercial equipment or machinery
- maintain welding machines or equipment
- measure and mark reference points or cutting lines on workpieces
- move or fit heavy objects
- observe or listen to machinery or equipment operation to detect malfunctions
- operate crane in construction, manufacturing or repair setting
- operate hoist, winch, or hydraulic boom
- order or purchase supplies, materials, or equipment
- paint walls or other structural surfaces
- perform safety inspections in industrial, manufacturing or repair setting
- plan or organize work
- position, align, or level machines, equipment, or structures
- prepare building surfaces for paint, finishes, wallpaper, or adhesives
- pressure test piping system or equipment for leaks
- read blueprints
- read schematics
- read specifications
- read technical drawings
- read work order, instructions, formulas, or processing charts
- repair cracks, defects, or damage in installed building materials
- repair electronic components, equipment, or systems
- repair or adjust measuring or control devices
- repair or replace electrical wiring, circuits, fixtures, or equipment
- repair or replace gas, steam, sewer, or water piping or fixtures



- maintenance, or repair
- use pipe fitting equipment
- use pneumatic tools
- use pollution control techniques
- use precision measuring devices in mechanical repair work
- use pressure gauges
- use robotics systems technology
- use soldering equipment
- use tube bending equipment
- verify levelness or verticality, using level or plumb bob
- weld together metal parts, components, or structures

Technology - Examples

Computer aided design CAD software

- Computer aided design CAD software

Computer aided manufacturing CAM software

- Extranet Machine Tools Suite

Data base user interface and query software

- Maintenance planning and control software

Facilities management software

- Maintenance management software

Industrial control software

- BIT Corp ProMACS PLC
- KEYENCE PLC Ladder Logic

Office suite software

- Microsoft Office

Spreadsheet software

- Microsoft Excel

Word processing software

- Microsoft Word

Tools - Examples

- Pliers
- Wrenches
- Compressors
- Alignment tools
- Ammeters
- Stud drivers
- Bandsaws
- Vises

- repair or replace locks, hinges, or related finish hardware
- repair or replace malfunctioning or worn mechanical components
- replace electronic components
- requisition stock, materials, supplies or equipment
- set up and operate variety of machine tools
- solder electrical or electronic connections or components
- test electrical/electronic wiring, equipment, systems or fixtures
- test mechanical products or equipment
- understand service or repair manuals
- understand technical operating, service or repair manuals
- use acetylene welding/cutting torch
- use arc welding equipment
- use basic carpentry techniques
- use basic plumbing techniques
- use building materials for routine building maintenance
- use combination welding procedures
- use control or regulating devices to adjust or maintain industrial machinery
- use electrical or electronic test devices or equipment
- use hand or power tools
- use hand or power woodworking tools
- use high voltage apparatus
- use knowledge of metric system
- use knowledge of ventilation systems
- use knowledge of welding filler rod types
- use machine tools in installation, maintenance, or repair
- use measuring devices in repairing industrial or heavy equipment
- use pipe fitting equipment
- use precision measuring devices in mechanical repair work
- use precision tools in electronics repair
- use pressure gauges
- use soldering equipment
- use tube bending equipment
- use voltmeter, ammeter, or ohmmeter
- verify levelness or verticality, using level or plumb bob
- weld together metal parts, components, or structures

Technology - Examples

Calendar and scheduling software

- Computerized time management systems

Electronic mail software



- Block and tackle equipment

- Acetylene torches

- Boring machines

- Broaching machines

- Calipers

- Reciprocating machinery combustion analyzers

- Airhammer chisels

- Combination wrenches

- Cutting dies

- Desktop computers

- Equipment rollers

- Side cutting pliers

- Angled feeler gauges

- Files

- Flow meters

- Forklifts

- Brazing equipment

- Shaping machines

- Grease guns

- Lapping wheels

- Brass hammers

- Hand pumps

- Gauges

- Allen wrenches

- Chain falls

- Impact wrenches

- Bearing heating ovens

- Jacks

- Ladders

- Laser measuring equipment

- Computer printers

- Engine lathes

- Microsoft Outlook

Facilities management software

- Computerized maintenance management system CMMS software

Industrial control software

- Digital Direct Control DDC Energy Management software

Internet browser software

- Web browser software

Office suite software

- Microsoft Office

Spreadsheet software

- Microsoft Excel

Word processing software

- Microsoft Word

Tools - Examples

- Adjustable widemouth pliers

- Adjustable crescent wrenches

- Air compressors

- Security alarm systems

- Volt-ammeters

- Augers

- Tractors with backhoe attachments

- Workshop bench vises

- Biscuit joiners

- Block and tackle equipment

- Cutting torches

- Locking C-clamps

- Dial calipers

- Caulking guns

- Metal chisels

- Conduit benders

- Desktop computers

- Utility pumps

- Diagonal cut pliers



- Transits
- Level gauges
- Channel lock pliers
- Magnetic retrievers
- Alignment scopes
- Rubber mallets
- Metal inert gas MIG welders
- Punches
- Programmable logic controllers PLC
- Inside micrometers
- Cutting machines
- Milling machines
- Multimeters
- Needlenose pliers
- Oscilloscopes
- Personal computers
- Facing machines
- Pipe wrenches
- Screw pitch gauges
- Plasma cutters
- Staging platforms
- Plumb bobs
- Airpowered descaling drills
- Pneumatic hammers
- Airpowered descaling turbines
- Jigs
- Power drills
- Cylindrical grinders
- Sanders
- Power saws
- Steam cleaning equipment
- Pressure gauges

- Dollies
- Closet augers
- Plungers
- Dump trucks
- Side cutting pliers
- Feeler gauges
- Hand files
- Fish tape pullers
- Two-wheel drive front end loaders
- Fuse pullers
- Brazing equipment
- Dial indicators
- Safety goggles
- Grease guns
- Hand grinders
- Valve grinding machines
- Hammer drills
- Ball peen hammers
- Hand operated spray guns
- Hand trucks
- Electric trimmers
- Allen wrenches
- Hoisting equipment
- Circle cutters
- Gasket cutters
- Boom trucks
- Hand jacks
- Step ladders
- Lathes
- Lawn mowers
- Bubble levels
- Power lifts



- Hydrostatic testers
- Optical measuring equipment
- Pinchbars
- Hydraulic pullers
- Putty knives
- Ratchet sets
- Reamers
- Burnishing wheels
- Riveting machines
- Rulers
- Welding lenses
- Handsaws
- Scissor lifts
- Scrapers
- Phillips head screwdrivers
- Rigging
- Socket sets
- Soldering irons
- Cylindrical procedures squares
- Straightedges
- Bearing bridge gauges
- Vacuum lifts
- Strobe tachometers
- Tape measures
- Taps
- Space gauges
- Pipe threaders
- Aviation snips
- Emery wheels
- Tungsten inert gas TIG welding equipment
- Radial drills
- Utility knives

- Ultrasonic leak detectors
- Channel lock pliers
- Inspection mirrors
- Rubber mallets
- Digital micrometers
- Miter boxes
- Needlenose pliers
- Laptop computers
- Nut drivers
- Hollow core socket wrenches
- Ohmmeters
- Oil dispensing cans
- Paint application brushes
- Paint application rollers
- Paint spray guns
- Personal computers
- Handheld computers
- Copper cutting machines
- Pipe vises
- End pipe wrenches
- Plumb bobs
- Jackhammers
- Chipping hammers
- Cordless power drills
- Electric nail guns
- Electric planers
- Power routers
- Electric sanders
- Circular saws
- High pressure water sprayers
- Safety gloves
- Crowbars



- Vacuum gauges

- Vibration analyzers

- Voltmeters

- Steel wedges

- Arc welders

- Welding shields

- Robotic teach pendants

- Tip dressing machines

- Electric welding equipment

- Electric rotary wire brushes

- Wire cutters

- Cranes

- Drill presses

- Bearing pullers

- Center punches

- Putty knives

- Comealongs

- Dust and particulate respirators

- Rulers

- Protective harnesses

- Protective footwear

- Hacksaws

- Scaffolding

- Screw extractor sets

- Flat blade screwdrivers

- Scribing tools

- Sewage pumps

- Sharpening equipment

- Shears

- Rigging equipment

- Slip joint pliers

- Snow blowers

- Snow plows

- Socket wrench sets

- Soldering equipment

- Basin wrenches

- Combination squares

- Straightedges

- Wire strippers

- Stud locators

- Measuring tapes

- Taps and dies

- Tension gauges

- Pipe threaders

- Tin snips



- Torque wrenches
- Trenchers
- Concrete trowels
- Tube benders
- Flaring tools
- Portable two way radios
- Utility knives
- Current testers
- Water sampling equipment
- Arc welders
- Wire cutting tools
- Wire crimpers
- Conduit cutters
- Workshop cranes
- Drill presses

Labor Market Comparison

Description	Industrial Machinery Mechanics	Maintenance and Repair Workers, General	Difference
Median Wage	\$ 39,370	\$ 31,020	\$(8,350)
10th Percentile Wage	\$ 28,150	\$ 21,110	\$(7,040)
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 48,040	\$ 38,440	\$(9,600)
90th Percentile Wage	\$ 56,740	\$ 49,520	\$(7,220)
Mean Wage	\$ 40,830	\$ 32,940	\$(7,890)
Total Employment - 2007	990	5,140	4,150
Employment Base - 2006	1,021	5,391	4,370
Projected Employment - 2016	1,096	5,572	4,476
Projected Job Growth - 2006-2016	7.4 %	3.4 %	-4.0 %
Projected Annual Openings - 2006-2016	25	31	6

National Job Posting Trends

Trend for Industrial Machinery Mechanics

Trend for Maintenance and Repair Workers, General



Data from [Indeed](http://Indeed.com)

Recommended Programs

Agricultural Mechanization, General

Agricultural Mechanization, General. A program that generally prepares individuals to sell, select, and service agricultural or agribusiness technical equipment and facilities, including computers, specialized software, power units, machinery, equipment structures, and utilities. Includes instruction in agricultural power systems; planning and selecting materials for the construction of support facilities; mechanical practices associated with irrigation and water conservation; erosion control; and agricultural data processing systems.

No schools available for the program

Building/Property Main. and Manager

Building/Property Maintenance and Management. A program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to service a variety of structures including commercial and industrial buildings and mobile homes. Includes instruction in the basic maintenance and repair skills required to service building systems, such as air conditioning, heating, plumbing, electrical, major appliances, and other mechanical systems.

No schools available for the program

Building/Construction Site Management/Manager

Building/Construction Site Management/Manager. A program that prepares individuals to supervise, manage, and inspect construction sites, buildings, and associated facilities. Includes instruction in site safety, personnel supervision, labor relations, diversity training, construction documentation, scheduling, resource and cost control, bid strategies, rework prevention, construction insurance and bonding, accident management and investigation, applicable law and regulations, and communication skills.

No schools available for the program

Mechanics and Repairers, Other

Mechanic and Repair Technologies/Technicians, Other. Any instructional program in mechanics and repairs not listed above.

Institution	Address	City	URL
Wasington County Community College	One College Drive	Calais	www.wccc.me.edu
Wasington County Community College	One College Drive	Calais	www.wccc.me.edu



Maine Statewide Promotion Opportunities for Industrial Machinery Mechanics

O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
49-9041.00	Industrial Machinery Mechanics	100	3	990	\$39,370.00	\$0.00	7%	25
49-9044.00	Millwrights	92	3	830	\$41,280.00	\$1,910.00	-12%	11
51-4111.00	Tool and Die Makers	88	3	160	\$51,670.00	\$12,300.00	-11%	2
51-4041.00	Machinists	87	3	1,860	\$41,560.00	\$2,190.00	4%	35
49-2094.00	Electrical and Electronics Repairers, Commercial and Industrial Equipment	87	3	440	\$49,450.00	\$10,080.00	-19%	15
51-4192.00	Lay-Out Workers, Metal and Plastic	86	2	180	\$43,870.00	\$4,500.00	-24%	3
51-4011.00	Computer-Controlled Machine Tool Operators, Metal and Plastic	86	2	720	\$40,490.00	\$1,120.00	6%	12
47-4021.00	Elevator Installers and Repairers	85	4	0	\$50,960.00	\$11,590.00	0%	0
49-9012.00	Control and Valve Installers and Repairers, Except Mechanical Door	85	3	170	\$47,860.00	\$8,490.00	-9%	3
49-2095.00	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	85	5	20	\$60,790.00	\$21,420.00	5%	1
49-3011.00	Aircraft Mechanics and Service Technicians	84	3	210	\$44,280.00	\$4,910.00	-2%	2
53-6051.07	Transportation Vehicle, Equipment and Systems Inspectors, Except Aviation	83	3	60	\$42,890.00	\$3,520.00	5%	2
47-2111.00	Electricians	82	3	2,910	\$43,650.00	\$4,280.00	1%	89
17-3023.01	Electronics Engineering Technicians	81	3	430	\$45,180.00	\$5,810.00	-20%	9
49-9061.00	Camera and Photographic Equipment Repairers	81	3	0	\$44,660.00	\$5,290.00	0%	0

Top Industries for Maintenance and Repair Workers, General



Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Lessors of real estate	531100	9.05%	125,853	138,660	10.18%
Local government, excluding education and hospitals	939300	7.30%	101,552	114,081	12.34%
Activities related to real estate	531300	5.42%	75,449	96,150	27.44%
Elementary and secondary schools, public and private	611100	3.99%	55,510	58,497	5.38%
Colleges, universities, and professional schools, public and private	611300	2.72%	37,891	42,390	11.87%
General medical and surgical hospitals, public and private	622100	2.48%	34,495	38,189	10.71%
Religious organizations	813100	2.44%	33,871	40,648	20.01%
Employment services	561300	2.30%	31,932	40,414	26.56%
State government, excluding education and hospitals	929200	1.58%	21,973	21,562	-1.87%
Offices of real estate agents and brokers	531200	1.45%	20,200	24,604	21.81%
Nursing care facilities	623100	1.36%	18,977	20,624	8.68%
Management of companies and enterprises	551100	1.34%	18,609	21,453	15.28%
Plastics product manufacturing	326100	1.10%	15,246	16,161	6.00%
Motor vehicle parts manufacturing	336300	0.96%	13,311	10,598	-20.39%
Animal slaughtering and processing	311600	0.91%	12,633	14,418	14.13%

Top Industries for Industrial Machinery Mechanics

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Commercial and industrial machinery and equipment (except automotive and electronic) repair and maintenance	811300	7.91%	20,611	25,083	21.70%
Motor vehicle parts manufacturing	336300	3.70%	9,644	8,829	-8.44%
Plastics product manufacturing	326100	3.58%	9,327	11,369	21.90%
Self-employed workers, primary job	000601	2.49%	6,497	7,960	22.52%
Electric power generation, transmission and distribution	221100	2.40%	6,265	6,626	5.77%
Converted paper product manufacturing	322200	2.30%	5,998	5,789	-3.49%
Pulp, paper, and paperboard mills	322100	2.25%	5,865	4,678	-20.23%
Animal slaughtering and processing	311600	2.25%	5,866	7,700	31.25%
Local government, excluding education and hospitals	939300	2.03%	5,296	6,841	29.19%
Fruit and vegetable preserving and specialty food manufacturing	311400	2.02%	5,259	5,484	4.27%
Basic chemical manufacturing	325100	1.87%	4,881	4,734	-3.02%

Federal government, excluding postal service	919999	1.81%	4,706	5,116	8.71%
Petroleum and coal products manufacturing	324100	1.46%	3,797	3,296	-13.18%
Semiconductor and other electronic component manufacturing	334400	1.39%	3,633	3,652	0.52%
Bakeries and tortilla manufacturing	311800	1.36%	3,536	4,154	17.47%